

# Lasernet 10.

## Lasernet Printer Service 10

Adam McStravick, Torben Pedersen, Sunil Panchal Revision 7 2025-01-24





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## 1 Introduction.

## 1.1 Who Should Use This Guide?

This guide is written for everyone whose work involves Lasernet Output workflows and in particular, onpremises and cloud printing. Some experience of using Lasernet Developer and Lasernet Config Server is required. Please refer to the relevant manuals for more information.



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## 3 Overview.

Lasernet Printer Service is an application that can be used to maintain your custom printer settings and deploy these to local printers, or anywhere globally using Microsoft Azure services. You can configure specific printer driver settings and save them as profiles which in turn can be selected for profile settings to be used by Lasernet.

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💅 Deploy 🕕 Add	🗱 Edit 🔲 Rename 🕒 Remov	ve Tilter		×	Checked							
Printer Services 0	9 Name	Paper Size Width	Length Form Name Orie	entation Scale Cop	ies Paper Source	Print Quality Color Mode	Duplex Mode	Created Date	Modified Date	Created By	Modified By	Locked By
DK Label Printers   DK Label Printers   DK Laber Printers	<ul> <li>Microsoft Print to PDF</li> <li>Default</li> <li>Microsoft XPS Document Writ</li> <li>Default</li> <li>Evera Laser Printer</li> <li>Default</li> <li>Zebra Label Printer 1</li> <li>Zebra Label Printer 2</li> <li>Default</li> <li>Zebra Label Printer 2</li> </ul>	ter Default Default	A4 (210 x Port A4 (210 x Port	trait 100 trait 100	1 Tray 1 (MPT) 1 Tray 2	600 x 600 Color 600 x 600 Color	Simplex Simplex	■ 8/12/202 ■ 8/12/202	■ 8/12/202 ■ 8/12/202	2 fpadmin 2 fpadmin	2 fpad 2 fpad	
Tools	9											
Log												

Certain steps must be completed, in a particular order, to configure and run your printer service. The Lasernet Config server is used to add settings. Then the Printer Service application is installed locally, then the workflow is configured in the Lasernet Developer.

Refer to the relevant checklist for the steps required, in the order they need to be completed.

## 3.1 Cloud

Checklist:

- Microsoft Azure both an Azure Storage subscription and an Azure Service Bus are required. For the Service Bus, a connection string is required when you set up Config Server. For the Azure storage account, either a connection string, Shared Access Signature (SAS) token, or app registration details (including client ID and client secret) are required.
- 2. Set up the Config Server printer servers; and optionally, user groups and security roles.
- 3. Install the Printer Service application primarily with msi file. Alternatively, click the **Install Printer Service** icon on the Lasernet Launcher.



- 4. Configure the Printer Service application activating printers, adding profiles. You must deploy to the configuration server log. This lists transactions and print jobs similarly to Lasernet Monitor but exclusively for this module.
- 5. Configure workflows in Lasernet Developer set up destinations from the drop-down menu in the printer service module.

### 3.2 On-Premises

This method of adding on-premises printers does not replace the previous method where printers and printer profiles are maintained in the Lasernet Developer. This is an additional method that is more consistent with the cloud printing method.

Note: Microsoft Azure is not involved with on-premises setups. Go to page 13.

Checklist:

- 1. Set up the Config Server printer servers; and optionally, user groups and security roles.
- 2. Install the Printer Service application Primarily with msi file. Alternatively, click the **Install Printer Service** icon on the Lasernet launcher.
- 3. Configure the Printer Service application activating printers, adding profiles. You must deploy to the configuration server log. This lists transactions and print jobs similarly to Lasernet Monitor but exclusively for this module.
- 4. Configure workflows in Lasernet Developer set up destinations from the drop-down menu in the printer service module.



## 4 Microsoft Azure Portal.

Note: This section only applies to Cloud printing.

You must set up the connections for the Microsoft Azure Service Bus and Storage Accounts. These must match with Lasernet Printer Service settings.

Locate the relevant settings using the navigation menu on the left.

### 4.1 Azure Service Bus

Locate the Azure Service Bus to be used by Lasernet and obtain the information mentioned in sections 4.1.1 and 4.1.2.

### **4.1.1 Shared Access Policies**

Click Shared access policies in the navigation menu.

The LasernetServiceBus RootManageSharedAccessKey is shown with permissions.

Note the **Primary Connection String** because you will use it when you configure the Service Bus connection in Lasernet Config (see section 5.4.2).

		, P Search resources, services, and docs (G+/)		図 6 0 ② ? を
Home > LasernetServiceBus-ns				SAS Policy: RootManageShare $\times$
LasernetServiceBuilden	us-ns   Shared access policies	<b>,</b>		
Service Bus Namespace				🗟 Save 🗙 Discard 📋 Delete …
P Search (Ctrl+/)	< + Add			Manage
Overview	Search to filter items			Send
Activity log	Policy		Claims	v seiu
Access control (IAM)	RootManageSharedAccessKey		Manage, Send, Listen	Listen
🔶 Tags	NotTheRootPolicy		Manage, Send, Listen	Primary Key
Diagnose and solve problems				6
Settings				Secondary Key
Shared access policies				
9 Geo-Recovery				Endpoint=sb://lasernetservicebus-ns.servicebus.windows.net
🐴 Migrate to premium				Secondary Connection Minne
Encryption				Endpoint=sb://lasernetservicebus-ns.servicebus.windows.net
🐲 Properties				
🔒 Locks				
Entities				
E Queues			Primary Connection S	string
💽 Topics			Endpoint=sb://lase	rnetservicebus-ns.servicebus.windows.net
Monitoring				
💡 Insights (Preview)				
III Alerts				
🕍 Metrics				
Diagnostic settings				
🧬 Logs				
Workbooks				
Automation	•			



### 4.1.2 Queues

Click Queues in the navigation menu.

Note the **Name** of the queue that will be used. You will use this name (as the **Entity Path**) when you configure the Service Bus connection in Lasernet Config (see section 5.4.2).

	$^{ ho}$ Search resources, services, and docs (G+/)		E 🗗	오 @ ? 저
📰 LasernetServiceBu	<b>is-ns</b>   Queues			
Service Bus Namespace				
	🗧 🕂 Queue 💍 Refresh			
Overview	Coarch to filter items			
Activity log	p search to line items			
Access control (IAM)	Name	Status	Max size	Enable partitioning
🔷 Tags	doc	Active	1024 MB	false
Diagnose and solve problems	laseral gates	Active	1004 MB	
Settings	tel gas 1	Active	1000 MB	
Shared access policies	<u></u>	Active	104.98	
Geo-Recovery	<u>w</u>	Active	104.48	
Sector Migrate to premium				
Encryption				
😂 Properties				
🔒 Locks				
<b>Faultion</b>				
Cuedes				
Monitoring				
💡 Insights (Preview)				
Alerts				
Metrics				
Diagnostic settings				
🧬 Logs				



### 4.2 Azure Storage Account

Locate the Azure Storage Account to be used by Lasernet and obtain the container name (and, if using appregistration-based authentication, obtain the storage account name and tenant ID) as described in section 4.2.1 Container Name, Storage Account Name, and Tenant ID.

Then, depending on the authentication type that the Lasernet will use to access the storage, collect the information mentioned in sections 4.2.2 Access Keys, 4.2.3 Application Registration, or 4.2.4 Shared Access Signature (SAS).

Print jobs are temporarily stored in this container.

### 4.2.1 Container Name, Storage Account Name, and Tenant ID

In the Azure Portal, click **Containers** in the navigation menu, then locate the existing container that Lasernet will use.



**4.2.1.1 For Access Key, App-Registration-Based, and Shared Access Signature (SAS) Authentication** Note the container's **Name** because you will use it when you configure the Azure Storage connection in Lasernet Config (see section 5.4.3.1, 5.4.3.2, or 5.4.3.3 depending on the authentication type).

#### 4.2.1.2 For App-Registration-Based Authentication Only

Note the name of the storage account (displayed in the top-left corner).

Also note the tenant domain (which is used as the **Tenant ID** when you configure Lasernet).

You will use these if (in Lasernet Config) you configure application registration authentication for the Azure Storage connection (see section 5.4.3.2).

#### 4.2.1.3 For Shared Access Signature (SAS) Authentication Only

Note the name of the storage account (displayed in the top-left corner).



### 4.2.2 Access Keys

If Lasernet will use access key authentication to access the storage account, follow these steps:

- 1. In the Azure Portal, click Access keys in the navigation menu.
- 2. Locate the Storage account name to be used by Lasernet.
- 3. Copy the **Connection string** because you will use it if (in Lasernet Config) you configure access key authentication for the Azure Storage connection (see section 5.4.3.1).

	P. Search resources, services, and doos (6+/)	
Home > cloudprint		
Cloudprint   Access	s keys ···	
P Search (Ctrl+/) 《	Use access keys to authenticate your applications when making expects to this Azure storage account. Store your access keys securely - for example, using Azure Key Vault - and don't share them. We recommend regenerating your access keys regularly. You are provided two access use on another access regular to making access the share access acces access access	cess
Overview	nay or our you with the second and t	
Activity log	men policyprimery policyprimery policy and policyprimery p	
🧼 Tags	Storage account name Storage account name	
Diagnose and solve problems		
Access Control (IAM)		
🂕 Data migration	ky1 O	
Storage Explorer (preview)		
Data storage	Connection string.	
Containers	DefaultingointikPotocol-https:	Ø
📫 File shares		
Queues		
📰 Tables		
Security + networking	Connection string	
Networking	DefaulEndpointsProtocol+https	
📥 Azure CDN		
📍 Access keys	Connection string	
Shared access signature	DefaultEndpointsProtocol=https;	
🔒 Encryption		
Security		
Data management		
Geo-replication		
Data protection		
🐴 Azure search		

### 4.2.3 Application Registration

If Lasernet will use app-registration-based authentication to access the storage account, an administrator of the relevant Microsoft Azure tenant must create an app registration to represent Lasernet, configure that app registration (including generating a client secret for it), and then configure the storage account to allow Lasernet to access it.

Request the app registration's client ID and client secret from the Microsoft Azure administrator.

**Important:** This authentication method is not applicable to Azure Storage containers that are managed by Microsoft Dynamics 365 Finance and Operations.

**Note:** Information for Microsoft Azure administrators to describe the specific configuration changes that they must make to the app registration and storage account is provided separately to this guide. See the *Configure Microsoft Azure to Support Lasernet Access to Azure Storage Through App-Registration-Based Authentication* article in the Formpipe knowledge base.



### 4.2.4 Shared Access Signature (SAS)

If Lasernet will use a SAS to access the storage account, an administrator of the relevant Azure Storage account must generate an appropriate SAS token for Lasernet to use.

The SAS token must be specified in one of these two ways:

- Directly specified in the print server's **SAS Token** setting (in the Lasernet Config web app).
- Provided by the PrinterServiceAzureStorageSASToken JobInfo in the jobs that Lasernet processes. This method applies if the Overridable checkbox is selected (on the Shared Access Signature Token (SAS) tab of the print server's settings in the Lasernet Config web app).

If using the first method, request the SAS token from the Microsoft Azure administrator.

If using the second method, appropriately design the Lasernet configuration to set the value of the PrinterServiceAzureStorageSASToken JobInfo to the current SAS token value (when Lasernet processes a job).

The print server's **Storage account** setting can be overridden by PrinterServiceAzureStorageAccountName JobInfo. The **Container name** setting can be overridden by PrinterServiceAzureStorageContainerName.

For information on how to configure this authentication option (including implementing the overriding of settings), see 5.4.3.3 Shared Access Signature (SAS) Token.

**Note:** Depending on organizational security policy, the SAS token might often change. For this reason, it might be more practical for Lasernet to retrieve the SAS token and then supply it in the PrinterServiceAzureStorageSASToken JobInfo, rather than require a Lasernet administrator to update the SAS token specified in a print server's settings (in the Lasernet Config web app) when the SAS token changes.



## 5 Lasernet Config.

Enables you to maintain different printer instances in different locations, via cloud or on-premises.

For optimal performance, depending on print load and available cores, we recommend that multiple printer services are added to the same print server. This enables you to separate print server queues into batches for larger printer jobs and on-demand for production labels.

Profiles are saved printer driver settings that are different from windows defaults in the Printer Properties dialog.

### 5.1 Print Servers

In Lasernet Config, click the

Print Servers

icon in the Tools menu.

The main area of the window lists all your configured printer servers, organised into either Cloud or On-Premises categories.





### 5.2 Users and Groups

**Note:** This is an optional function to define users, group them and assign different permissions and security roles.

In Lasernet Config, click the

Users and Groups icon in the Tools menu.

The main area of the window lists all your configured users and groups, organised into the respective categories.



Refer to the Config Server manual for more details about settings for Users and Groups.



### 5.3 Security Roles

**Note:** This is an optional function to specify permissions and security roles that are granted to different users and groups.

In Lasernet Config, click the

Security Roles icon in the Tools menu.

.

The main area of the window lists Lasernet applications with the security rights assigned, including for Printer Service.





### 5.3.1 Configuring Security Roles

Select All Rights in the Printer Service category and either double-click or click the tedit icon.

The Printer Service Role Properties dialog will be displayed. You can set the permission settings for different user groups for printers and profiles in the current instance.

#### **Deployment Tab**

Printe	Service Role Properties	×
General Deployment Members		
Print Server Instance	Acce	ss Rights
📾 DK Label Printers	A	llow
🛑 DK Laser Printers	🗹 A	llow
US Laser Printers	► A	llow
		OK Cancel

Check Allow to enable that printer to be accessed in Printer Service.



#### **Members** Tab

	PrinterService Role Properties		×
General Deployment Members			
Name			
Administrators			
🔂 Add 🛛 😑 Remove			
		OK	Cancel

Click the <sup>•</sup> Add</sup> icon to select and add user groups, granting them access rights to use the Printer Service.

Click Click Remove to revoke access rights from the selected user group.

Note: If a user is a member of several groups the selected access rights are a summary of all groups.



## 5.4 Print Server Properties Dialog

This dialog is displayed when you add or edit a print server.

Double-click in the listed printer profile or click Edit.

### 5.4.1 General

Enter your own memorable descriptions for the print server.

#### Cloud

	Add Print Server		×
💿 📃 📣			
General Service bus Storage accou	nt		
Name:	DK Label Printers		
Description:	Cloud - Warehouse		
Client Secret:			<u>Г</u> Ф
		OK	Cancel

#### **On-Premises**





Name – The name that will be displayed to identify the print server.

**Description** – Custom description of the print server.

**Client Secret** – A unique character string used by Lasernet servers to authenticate a session with the Printer Service. Click the <sup>C</sup> icon in the field to generate a random client secret.

### Notes:

- 1. Client Secret is used for both cloud and on-premises printing.
- 2. If your Printer Service is running and client secret is regenerated, you must log out of the Printer Service application, log in again and deploy your printers and printer profiles to update the client secret.



### 5.4.2 Cloud — Service Bus

Insert the endpoint and entity path for the Service Bus as defined in Microsoft Azure.

Print Server Properties				
<ul> <li>Image: Image: Ima</li></ul>				
General Service bus Storage acco	unt			
Connection string:	Endpoint=sb://lasernetservicebus-ns.servic			
Entity path:	doc			
		OK	Cancel	
·		UK	Cancel	

**Connection String** – The Service Bus endpoint connection string. Use the connection string that you noted in section 4.1.1.

Entity Path – The name of the Service Bus queue that will be used (as noted in section 4.1.2).

**Note:** Separate printer servers should have individual Service Bus queues/entity paths; they should not share.



### 5.4.3 Cloud — Storage Account

The instructions for configuring authentication with the Azure Storage account depend on the authentication type (access key, app-registration-based, or Shared Access Signature (SAS) token) that Lasernet will use to access the storage. Refer to the relevant following section.

#### 5.4.3.1 Connection String (Access Key)

If Lasernet will use access key authentication, click **Connection String**, then use the storage account container name and connection string (as defined in Microsoft Azure) that you collected when following the instructions in sections 4.2.1 Container Name, Storage Account Name, and Tenant ID and 4.2.2 Access Keys.

	Add Print Server		×
General Service bus Storage accou	int		
Connection String      Shared Act	cess Signature Token (SAS) 🔿 Application Registi	ration	
Connection string:	Required		
Container name:	Required		
		OK	Cancel
		UK	Cancer

**Connection string** – The storage account connection string. Use the connection string that you noted in section 4.2.2 Access Keys.

**Container name** – A unique name to identify the container. Use the name you copied from the Azure Portal (see section 4.2.1 Container Name, Storage Account Name, and Tenant ID).



#### 5.4.3.2 Application Registration

If Lasernet will use app-registration-based authentication, click **App Registration**, then use the app registration details and container name (as defined in Microsoft Azure), which you collected when following the instructions in sections 4.2.1 Container Name, Storage Account Name, and Tenant ID and 4.2.3 Application Registration.

	Add Print Server		×
General Service bus Storage accou	ınt		
○ Connection String ○ Shared Act	cess Signature Token (SAS) 🔘 Application Regist	ration	
Storage account:	Required		
Tenant ID:	Required		
Client ID:	Required		
Client Secret:	Required		
Container name:	Required		
		OK	Cancel

**Storage account** – Use the storage account name that you copied from the Azure Portal (see section 4.2.1.2).

Tenant ID – Use the tenant domain that you copied from the Azure Portal (see section 4.2.1.2).

**Client ID** – Use the **Application (client) ID** (from the Azure Portal) of the app registration that Lasernet will authenticate as. See 4.2.3 Application Registration.

**Client Secret** – Use a client secret (from the Azure Portal) for the app registration that Lasernet will authenticate as. See 4.2.3 Application Registration. **Note:** This is not the same client secret that you entered on the **General** tab.

**Container name** – Use the name you copied from the Azure Portal (see section 4.2.1 Container Name, Storage Account Name, and Tenant ID)



#### 5.4.3.3 Shared Access Signature (SAS) Token

If Lasernet will use a Shared Access Signature (SAS) to access Azure Storage, click **Shared Access Signature Token (SAS)**.

The **Overridable** checkbox determines whether the Printer Service Output module can read **Storage account**, **Container name**, or **SAS Token** from JobInfos when Lasernet sends jobs to the Printer Service app.

If **Overridable** is selected, and one or more of the following JobInfos exist when Lasernet processes a job, the values provided by the JobInfos that are present will override the values present in this **Add Print Server** window.

- PrinterServiceAzureStorageAccountName
- PrinterServiceAzureStorageContainerName
- PrinterServiceAzureStorageSASToken

If **Overridable** is selected, **Storage account**, **Container name**, and **SAS Token** can each either be left blank or given values, depending on the behavior that you want to implement. This is because these settings are individually overridable. For example, you can enter values in the **Add Print Server** window for **Storage account** and **Container name**, leave **SAS Token** blank, and then ensure that Lasernet jobs contain the PrinterServiceAzureStorageSASToken JobInfo.

If Overridable is cleared, you must provide values in this Add Print Server window for Storage account, Container name, and SAS Token.

	Add Print Server		×
📀 📃 🔼			
General Service bus Storage accou	int		
○ Connection String   Shared Acc	ess Signature Token (SAS) 🔿 Application Registra	ation	
Storage account:	Required		
Container name:	Required		
SAS Token:	Required		
Overridable:	🔽 Via JobInfos		
		OK	Cancel
		UK	Cancel

Overridable – See the information above.



**Storage account** – Use the storage account name that you copied from the Azure Portal (see section 4.2.1.3.

Container name – Use the name you copied from the Azure Portal (see section 4.2.1.1).

**SAS Token** – This is the SAS token supplied to you by the Microsoft Azure administrator (see section 4.2.4 Shared Access Signature (SAS)).

### 5.4.4 On-Premises — Connection

Insert the host name for the local printer server running the Printer Service app.

	Add Print Server		×
🧼 📃			
General Connection			
Host name:	ServerName		- 1
			- 1
			- 1
			- 1
			- 1
			- 1
			- 1
			- 1
			- 1
		OK Cance	el

**Host name** – The name of server inserted as host name must be accessible via an open TCP/IP connection for the Lasernet Server / Printer Service module. The port number is 3278 and cannot be changed.



## 6 Installing Printer Service Application.

Lasernet Printer Service is a standalone application and must be installed before use.

Run the standalone installer Lasernet Printer Service 10.msi

Alternatively, click the Install Printer Service icon on the Lasernet launcher.



Follow the on-screen steps to install. We recommend using the default settings.

Notes:

The Printer Service application will automatically install the required service(s) "Lasernet Printer Service 10 (PrinterServerName)" in Windows Services, listening on:

https://[WindowsServerName]:3278/Inprintservice/api/[LasernetHostName]

The port number 3278 is fixed and cannot be changed.

The services receive prints from the Lasernet Server and prints to local printer(s) applying printer profiles on request.



## 7 Lasernet Printer Service.

## 7.1 Starting Printer Service

Note: Before first use, you need to install the application.

Click the **Printer Service** icon on the Lasernet Launcher, or your shortcut.



### 7.2 Connect

Connect to the Lasernet Config server by typing the server name and your credentials.

Formpipe. Lasernet	- x
Connect to Lasernet	
Server: On-doc	× -
Username: 🙎 admin	
Password: 🛛 📍 Required	
Remember me?	
	Connect
10.1.0	



## 7.3 Printer Service Window

The Printer Service window lists all Windows printers. It also lists Lasernet profiles in which device mode settings are stored when they have been added. The Default profile refers to the default settings for the Windows printer, instead of a custom added printer profile.

Select the printer service on the left side for which you want to assign printers.

Note: Separate printer servers should have individual service bus queues; not share the same details.

Right-click on the printer name and select **Check All** to deploy all printers for the selected printer service.



### 7.3.1 Printer Profiles

Check the printers you want to be accessible in Lasernet.

Active printers are checked; Lasernet will use the **Default** device mode settings for a printer, if the profile for a job is unspecified, or alternatively select another profile.

It also shows common device mode settings - for example, Paper Size, Orientation and Paper Source.



				Lasernet Pri	nter Service 10	)						x ı
<u>F</u> ile <u>V</u> iew <u>H</u> elp												
💅 Deploy 🕒 Add	🏟 Edit 📑 Rename 🕒 Remove	<b>T</b> Filter				×	Checked					
Printer Services Ø	Name	Paper Size	Width L	ength Form Name	Orientation	Scale Copi	es Paper Source	Print Quality C	olor Mode	Duplex Mode	Created Date	Modified [
	Microsoft Print to PDF											
	Microsoft XPS Document Writer											
	Default											
	📄 🖷 Xerox Laser Printer											
	✓ Default											
	V 🖶 Zebra Label Printer 1											
🚍 DK Label Printers	Default	Custom	1050	1500 Default	Portrait	100	1 Manual feed	300 × 300 1	) of a ult	Default	8/12/2021 8-37 AM	
	Zebra Label Printer 2	Custom	1050	1500 Delaut	Fortialt	100	i Maridai recu	500 x 500 1	/erault	Deraute	0/12/2021 0.37 A	"
	Default											
	Label 105 x 150	Custom	1050	1500 Default	Portrait	100	1 Manual feed	300 x 300 I	Default	Default	🚞 8/12/2021 8:38 AM	1 🗮 8/12
E DK Laser Printers												
•												
ELIS Lager Drinters												
S Co Laser Printers												
Tools 🗗												
📑 Printer Profiles												
Log	4											Þ
- D	eploy											
Click the	icon to log in to	o a La	serr	net sessio	on and	l conn	ect the	printer p	orofile	e to you	ir workflow.	
	0							•		-		
Note: Deploy w	vill only be active if at	least	one	printer i	s chec	ked.						

Click the	🔂 Add	icon to add a new printer profile for the selected printer.
Click the	🗱 Edit	icon to edit the selected printer profile (alternatively, right-click the profile).
Click the	📑 Renam	e icon to rename the selected printer profile.
Click the	C Remov	e icon to delete the selected printer profile.
Type a te	rm in the	Filter field to filter results by printer name.
Click the	Checke	d icon to list only printers with a check mark applied.



#### **Status Indicators**

The printer icon will have one of the following color indicators, depending on status for the Lasernet Printer Services running as Windows Services:

🚍 DK Label Printers
🖶 DK Laser Printers
🚍 US Laser Printers

Service is installed and running Installed but not running Not installed

## 7.4 Printer Service Window



### 7.4.1 Log

Click the relevant Printer Service icon in the left pane, then click Log.

Click Fetch newest to retrieve the latest log entries for processed print jobs.

Note: You can scroll up or down to fetch older or newer logs respectively.



			Lasernet Printe	er Service 10				- 0	×
<u>F</u> ile <u>V</u> iew <u>H</u> elp									
💅 Deploy 🔍 Te	ext to search for	× - Q	Find Previous 🔍 Find Next	C Find All	💾 Download Logs	Fetch oldest	Fetch newest	🗙 Clear log	
Printer Services	Ф Туре	Time	Module		M	lessage			-
	System	2021-08-19 07:33:47.671	Lasernet Printer Service		Se	ervice started			
	System	2021-08-19 09:54:12.552	Lasernet Printer Service		St	topping service			
	System	2021-08-19 09:54:17.436	Lasernet Printer Service		Se	ervice stopped			
•	System	2021-08-19 09:54:22.692	Lasernet Printer Service		Lo	ogfile in C:\ProgramDat	a\Formpipe Software\L	asernet 10\PrinterService\DK Las	ser
	System	2021-08-19 09:54:22.708	Lasernet Printer Service		Lo	ogfile in C:\ProgramDat	a\Formpipe Software\	asernet 10\PrinterService\DK Las	ser
	System	2021-08-19 09:54:22.708	Lasernet Printer Service		St	tarting service			
	System	2021-08-19 09:54:22.708	Lasernet Printer Service		Pr	rint Server: 'DK Laser P	rinters'		
	System	2021-08-19 09:54:22.708	Lasernet Printer Service		Li	stening on https://local	host: 3278/Inprintservi	ce/api/DK%20Laser%20Printers	
-	System	2021-08-19 09:54:22.708	Lasernet Printer Service		Lis	stening on https://ln-de	oc: 3278/Inprintservice/	api/DK%20Laser%20Printers	
DK Label Printers	System	2021-08-19 09:54:22.708	Lasernet Printer Service		Se	ervice started			
	💥 Debug	2021-08-19 09:58:41.578			D	ownloading blob 70184	e42-2d5d-42a9-9719-3	3b0a4f043e7b	
	💥 Debug	2021-08-19 09:58:41.781			D	eleted message succes	sfully.		
	💥 Debug	2021-08-19 09:58:42.078			Pr	ocessing blob 70184e4	12-2d5d-42a9-9719-3b	0a4f043e7b	
•	💥 Debug	2021-08-19 09:58:42.109			Jo	b contains 3 pages.			
	dot 🧰	2021-08-19 09:58:42.906			U	sing default profile Tray	y 1		
	💥 Debug	2021-08-19 09:58:45.682			Pr	rinting page 1			
	💥 Debug	2021-08-19 09:58:45.745			Pr	rinting page 2			
	💥 Debug	2021-08-19 09:58:45.760			Pr	rinting page 3			
DK Laser Printers	🕷 Debug	2021-08-19 10:00:56.389			D	ownloading blob 757cb	a87-c74a-46ae-a91e-f	b34d653d06e	
	💥 Debug	2021-08-19 10:00:56.530			D	eleted message succes	sfully.		
	🕷 Debug	2021-08-19 10:00:56.546			Pr	rocessing blob 757cba8	7-c74a-46ae-a91e-fb3	4d653d06e	
	🕷 Debug	2021-08-19 10:00:56.546			Jo	ob contains 1 pages.			
	dot 🤷	2021-08-19 10:00:56.780			U	sing default profile Tray	y 1		
	🕷 Debug	2021-08-19 10:00:59.538			Pr	rinting page 1			
	🖉 Debug	🗂 2021-08-19 10:01:18.160			D	ownloading blob 7ae29	cc5-8890-4b96-8a5b-a	a5d7dae04eb	
	💥 Debug	2021-08-19 10:01:18.222			D	eleted message succes	sfully.		
	🛛 🕷 Debug	🚞 2021-08-19 10:01:18.254			Pr	rocessing blob 7ae29cc	5-8890-4b96-8a5b-aa	5d7dae04eb	
	💥 Debug	🚞 2021-08-19 10:01:18.254			Jo	ob contains 3 pages.			
🚍 US Laser Printers	dot 🤷	acial 2021-08-19 10:01:18.363			U	sing default profile Tray	y 1		
	🕷 Debug	2021-08-19 10:01:21.061			Pr	rinting page 1			
	🛛 🕷 Debug	🚞 2021-08-19 10:01:21.108			Pr	rinting page 2			
	🐺 Debug	🚞 2021-08-19 10:01:21.108			Pr	rinting page 3			
	🕷 Debug	2021-08-19 10:01:21.139			D	ownloading blob fe5834	4fc-081f-417a-ae01-fd	19a337f565	
	🕷 Debug	2021-08-19 10:01:21.280			D	eleted message succes	sfully.		
	🕷 Debug	2021-08-19 10:01:21.296			Pr	ocessing blob fe5834fe	c-081f-417a-ae01-fd19	a337f565	
Tools	🗗 💓 Debug	2021-08-19 10:01:21.296			Jo	ob contains 1 pages.			
Printer Profiles	dot 🤷	2021-08-19 10:01:21.374			U	sing default profile Tra	y 1		
Log	🕷 Debug	2021-08-19 10:01:23.933			Pr	inting page 1			-

The Log toolbar contains the following commands:

Type a term in the	e Text to search for field to search the log. Text strings are not case-sensitive.
Click Sind Previou	s to display the previous string found by the search.
Click Click	to display the next string found by the search.
Click Click t	o display the Find All dialog from which you can define more specific search criteria:



	Fin	d All	×
Message:			×
Module:			×
JobID:			×
PublicID:			×
✔ Start d	late	End date	
20	21-00-18 00:00:00.000 💌	2021-59-20 23:59:00.0	- 10
Event type	25		
	System		
	Job		
	JobInfo		
	Session		
	Transactions		
	Debug		
	Errors		
	Custom		
X Clear	r All	Find <u>A</u> ll <u>C</u> lo	se

Click Download Logs to download the log files from the server / instance to the local computer as a zip file.

Fetch oldest to scroll to the oldest log entry available on the server. (Note: Alternatively, scroll up to Click fetch older entries.)

Fetch newest to scroll to the newest log entry available on the server. (Note: Alternatively, scroll down Click to fetch newer entries.)

Click Clear log to remove log entries from the screen.



## 8 Profile Configuration.

### 8.1 Add

Click **Add** to show a dialog to input a new configuration for the selected printer.

### 8.1.1 General Tab

Enables you to name the profile and view the printer to which it is associated.

Xerox Laser Printer Profile 1 Properties X
General Device Settings
Profile name: Xerox Laser Printer Profile 1
Printer: 💭 Xerox Laser Printer
Qk Cancel

**Profile name** – Type a unique name to identify the profile.

**Printer** – The printer to which the configuration will be added.



### 8.1.2 Device Settings Tab

Device Settings enables you to define standard properties for the printer including paper size, paper source, number of copies, color mode, duplex mode etc.

Xerox Laser Printer Profile 1 Properties X					
General Devi	ce Settings				
Paper size:	2159 x 2794 👻				
Paper width:					
Paper length:					
Orientation:	Portrait 👻				
Form name:	Default 👻				
Scale:	100				
Copies:	1				
Paper source:	Automatically Select 🔹				
Print quality:	600 x 600 👻				
Color mode:	Color				
Duplex mode:	Simplex 💌				
	Additional Settings				
	Qk Cancel				

Click Additional Settings to show specific printer driver settings.



### 8.1.3 Additional Settings Dialog

The specific driver module settings can be configured.

These settings will be saved by Lasernet in a device mode context and can later be activated from Lasernet workflow.

👼 Xerox Laser Printer Properties	×
	xerox™
1-Touch       Printing Options       Document Options       Advanced         Image: Solution of the second option of the second option of the second option option of the second option	
Presets: Default Settings	OK Cancel

Note: The dialog shown and settings available will vary depending on the printer hardware being configured.



## 8.2 Deploy Configuration Dialog

This dialog lists the deployment history for printer configurations.

Select the printer server instances for which you want to deploy the printer list and profiles.

Deploy													
Deploy to:													
Name F	Printers Description												
Cloud													
🗸 👼 DK Label Printers	2 Label printing												
🗸 👼 DK Laser Printers	1 Laser printing												
	OK	Cancel											

Click **OK** to deploy to the Configuration server.



### 8.3 Windows Services

### 8.3.1 Installing Printer Services

After the first deployment, where at least one printer and profile are selected, a Lasernet Printer Service for each instance will be installed and started in Windows Services.

These receive prints from Lasernet and print to your local printer, applying Printer Profile settings.

🔍 Services						-	×
File Action View	Help						
♦ ♦	2 📑 🛛 🖬 🕨 🗉 🖬 🕨						
🔍 Services (Local)	Services (Local)						
	Lasernet 10 (Default:3279)	Name	Description	Status	Startup Type	Log On As	^
	Stop the service Restart the service	Calabel Printer Service 10 (DK Label Printers) Calabel Printer Service 10 (DK Laser Printers)	Receives prints from Lasernet and prints to Receives prints from Lasernet and prints to	Running Running	Automatic Automatic	Local System Local System	

### 8.3.2 Uninstalling Printer Services

Uncheck all printers in the Printer Service window list that are assigned to a particular printer server instance.



This will remove the selected printers and profiles from the configuration and uninstall them from Windows Services.



## 9 Lasernet Developer.

Start Lasernet Developer.

Connect to the Lasernet Config server by typing the server name and your credentials.

Select Modules in the Tools menu.

Click Output then add a Printer Service module.



Select a printer server and a printer name from the drop-down list.

Note: This list is retrieved from the printer services added to the Lasernet Config server. See section 5.



### 9.1 Printer Service Module

Select the printer server and connect to the specific printer using the drop-down menus.



**Note:** You must first configure your Print Servers, on the Config Server, and add and deploy printers in the Printer Service app do this.





### 9.1.1 Printer Profiles

Click the **Profiles** tab at the bottom of the left panel, then select **Printer Profiles**.

Here you can view the list of printer service instances, and their printer profiles, created in the Printer Service app.

						Lasernet (	Output Manage	?	×					
<u>F</u> ile <u>E</u> dit <u>S</u> ervers <u>V</u> iew	v <u>R</u> evision <u>H</u>	lelp												
🛒 Deploy  🛞 Patch	Validate		Commit	Revert	() History	🔂 Add	Edit	C Remove	Filter	×				
Servers		ð												
Master			Refres	h										
Default			Name			+ Par	oer Size	Width	Length	Form Name	Orientation	Scale	Copies	s
			🖶 \\DK La	bel Printers	Zebra Label	Printer 1								$\neg l$
			🗹 Defa	ult										
Printer Profiles		ð	🗆 Lab	el 105 x 150		Cu	istom		1050	1500 Default	Portrait		100	
			🖶 \\DK La	bel Printers	\Zebra Label	Printer 2								
			🗹 Defa	ult										
			🗆 Lab	el 105 x 150		Cu	istom		1050	1500 Default	Portrait		100	
			🖶 \\DK La	ser Printers	Xerox Laser	Printer								
			Defa	ult										
			Tray	1		De	fault			A4 (210 x 297 mm	n) Portrait		100	
			Tray	2		De	fault			A4 (210 x 297 mm	n) Portrait		100	
														-1
Profiles		ð												
📕 Printer Profiles														
🚔 Printer Failure Profiles														
🔇 Regional Profiles														
Security Profiles														
# JobInfo Profiles														
100 010 Data Type Profiles														
Barcode Profiles														
Tools Profiles			4											
			•								۵.		linear d (DELCO)	-
												icensed To: Un	licensed (DEMO)	

Printer profiles are supported for documents created in the EMF format only.

### 9.1.2 Printing PDF and DOCX files.

The Print Service module and app also have a functionality to auto-detect and print PDF and DOCX documents, called printer attachments, without the needs for 3<sup>rd</sup> party applications, including selection of paper source in the printer by detecting the PDF page sizes in the PDF documents. Other printer settings are selected by the default printer settings defined in the Windows printer settings.

#### 9.1.3 JobInfos

A list of JobInfos can overrule the printer settings:

ColorMode	ColorMode is used set monochrome or color printing. Known values are: Default, monochrome and color.
Copies	Set Copies to control the number of printed copies.



DocName	DocName JobInfo is used to control the name of the print job for the Windows Print Spooler. If not set the default value is set to "Unnamed – Lasernet document".
DuplexMode	Duplex printing allows the printing of a sheet of paper on both sides automatically. Examples of values are: Default, Simplex, Vertical and Horizontal.
Orientation	Manage the Orientation of the paper. Example of values are Portrait or Landscape.
PaperHeight	Defines the height of the paper form.
PaperSource	Selects the Paper Source in the printer. Example of values are: Auto, Tray 1, Tray 2, Upper Tray, Lower Tray.
PaperWidth	Defines the width of the paper form.
PrintAttachment	May contain a list of documents in binary representation for printing externally. It is used together with PrintAttachmentFilename and PrintAttachmentMimeType JobInfos.
PrintAttachmentCopies	Used to set control the number of printed copies for attached documents in the format PDF and DOCX.
PrintFilename	If it is not empty, it is assumed that the JobData is a PDF or Word document type which should printed separately. It is used together with PrintMimeType.
PrintMimeType	Contains the mime type of the file to print. It is used together with PrintFilename.
WinPrintUserName	Specifies the username of the print job as shown in the job list for a local printer. This can be set to just about anything.



## 10 Lasernet Form Editor.

Click Forms in the Tools menu.

Double-click the output page tabs in the Form Editor window to display the Sheet Options dialog.





## 10.1 Sheet Options Dialog

Click the **Printer Profiles** tab to show the relevant settings.

You can select different profiles for the First, Middle, Last and Single pages by clicking the checkboxes.

	Sheet Options - Print												×						
	-	t		Ŧ.		#		ť.					•→		•	HTML			
General	Criteria	Combining	Destinations	Pre JobInf	os Po	st JobIn	fos M	odifiers	Format Prin	iter Pro	ofiles 0	verlay Files Page Setup	Master Sheet	t Adv	anced	Style Sheet			
Name					First	Middle	Last	Single	Paper Size	Width	Length	Form Name	Orientation	Scale	Copies	Paper Source	Print Quality	Color Mode	Duplex Mode
۵// 🖷	K Label	Printers\2	ebra Label	Printer 1															
Def	ault				<b>~</b>	~	<b>~</b>	<b>~</b>											
Lab	el 105 x 15	50							Custom	1050	1500	Default	Portrait	100	1	Manual feed	300 x 300	Default	Default
۵// 🖷	K Label	Printers\Z	ebra Label	Printer 2															
Def	ault				1	<b>~</b>	<b>~</b>	<b>~</b>											
Lab	el 105 x 15	50							Custom	1050	1500	Default	Portrait	100	1	Manual feed	300 x 300	Default	Default
۵// 👄	K Laser	Printers\X	erox Laser	Printer															
Def	ault																		
Tray	y 1								Default			A4 (210 x 297 mm)	Portrait	100	1	Tray 1 (MPT)	600 x 600	Color	Simplex
Tray	y 2				~	~	~	~	Default			A4 (210 x 297 mm)	Portrait	100	1	Tray 2	600 x 600	Color	Simplex
4																			
4																			
																		赌 Set i	tor all sheets
< Pre	vious shee	t 🗈 Ne	xt sheet														Qk	Cancel	Apply

### **10.1.1 Printer Profile Priority**

Printer Profile settings may override the default Printer Service settings, depending on where they are configured.

This is the order of precedence, from highest to lowest:

- 1. Form Editor Printer Profile selection at sheet level
- 2. Printer Service application Printer Profile selection
- 3. Windows local printer queue printer settings



## 11 Notes.

- Support for JobInfos in Lasernet Printer Service is the same as the Printer Output module as listed in the Lasernet Developer manuals.
- Only local printers, installed on the Windows Printer Server, are supported by Lasernet Printer Service 10.

### 11.1 Hierarchy

There are three hierarchy levels used to define which printer settings will take precedence for a job:

- 1. Printer profile in the form.
- 2. Selection in the Printer Service application.
- 3. Windows printer queue (the default settings for that printer). This will apply if no adjustments are made to settings for either 1 or 2 i.e. no printer-specific settings are adjusted.

## 11.2 Supported Formats

Supported print formats are EMF (Windows spooler format) with Printer Profiles and JobInfos.

PDF and DOCX are supported print formats but Printer Profiles and JobInfos are not supported; default settings added to the Windows Printer queues will be used instead.

## 11.3 Licensing

Lasernet Printer Service does not require any additional licensing. Licensing is similar to the Printer Output modules based on added printer connections.

## 11.4 Printer Output

- External tools (Foxit) are no longer required for printing PDF and DOCX (EMF).
- Printer Failure Profiles are not supported by Lasernet Printer Service 10.

## **11.5 Printer Profiles**

We recommend that Printer Profiles are managed in Lasernet Printer Service 10.

Listed profiles, managed by Printer Service, are greyed out in Lasernet Developer 10.

In Lasernet 9, printing is always created via the Printer Output module. Therefore, Printer Profiles are maintained in Lasernet Developer 9 only. This functionality is available in Lasernet Developer 10 for backwards compatibility.



Printer Profiles created in Lasernet Developer 10, via Printer Output modules, are colored and can be activated in the UI. These work in a similar way to the Printer Profiles in Lasernet Printer Service 10 and can be activated from the interface.